

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/092837 A2

(51) International Patent Classification⁷: C07C 227/40, 229/28

(21) International Application Number:
PCT/EP2005/051297

(22) International Filing Date: 21 March 2005 (21.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2004A000579 25 March 2004 (25.03.2004) IT

(71) Applicant (for all designated States except US): ZAMBON GROUP S.P.A. [IT/IT]; Via della Chimica, 9, I-36100 Vicenza (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GIOVANETTI, Roberto [IT/IT]; Via L. da Vinci, 121, I-36015 Schio (IT). NICOLI, Andrea [IT/IT]; Via Monzambano, 50, I-36100 Vicenza (IT). VERZINI, Massimo [IT/IT]; Via delle Terme, 10, I-37042 Caldiero (VR) (IT). SORIATO, Giorgio [IT/IT]; Via delle Terme, 22, I-37042 Caldiero (VR) (IT). COTARCA, Livius [RO/IT]; Via Mercato, 18, I-33052 Cervignano Del Friuli (IT).

(74) Agent: LONGONI, Alessandra; Zambon Group S.P.A., Intellectual Property Dept., Via Lillo del Duca, 10, I-20091 Bresso (MI) (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/092837 A2

(54) Title: PROCESS FOR THE PREPARATION OF GABAPENTIN

(57) Abstract: The present invention relates to a process for the preparation of gabapentin and, more particularly, it relates to a precipitation process of gabapentin by acidification of an aqueous solution deriving from the Hofmann rearrangement of 1,1-cyclohexanediacetic acid monoamide.